Defcon Technologies Group

15th Anniversary 1998 - 2013

savox COMMUNICATIONS

URIC– CC 633-4VPX

(Universal Radio & Intercom Controller)

USER GUIDE

Revision 1.0

Doc No URIC 100-40 R2

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1. OVERVIEW

The URIC is a smart, man worn, communications hub providing audio control over multiple communications devices, including the 'talk through' capability of the EarPAC series headsets. With automatic equipment sensing on the headset and the auxiliary socket, URIC provides a highly flexible and capable system.

URIC CC 630/633-4 W has a single headset socket, x2 audio inputs on the bottom for connection to radios/intercoms or other ancillary devices. The unit has three PTTs associated to each radio/intercom input, to enable Dual Net radio transmissions and also transmission of tactical/combat radios. To aid simplicity of use the system has voice assisted menu prompts/ controls and is powered from an internal AA battery, providing approximately 40 hours usage using standard alkaline battery technology.

OVERVIEW-Continued

Each port (Headset or Radio) auto senses, via the cable, the type of radio or Headset connected to the system and adjusts audio levels accordingly. When two radios are connected, URIC presents separate audio in the left and right ear of EarPAC (In Ear Headset) or Dual Ear headsets. Activating any of the PTTs on URIC will allow transmission on the radio selected. When using the Speaker Mic, with no headset connected, combined audio is presented on the speaker and transmission can take place on either radio by selecting the radio PTT switch and talking into the integrated microphone.

URIC - Schematic

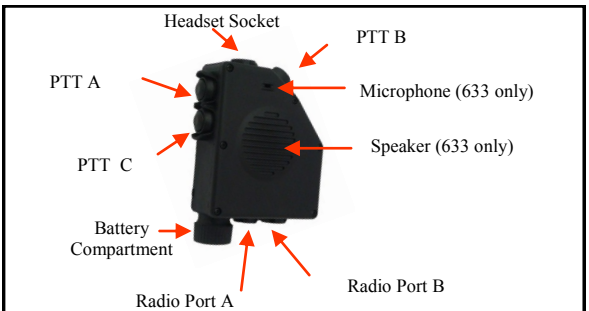

Fig 1– URIC Features and Ports

Fig 2– URIC Control Pads and Wireless Controller

2. URIC Connections/Power On/Off

2.1 BATTERY INSERTION/POWER ON-OFF

Fig 3 - Replacing the Battery

- **Removal and Replacement**. Unscrew and remove battery cap. Place battery into the compartment +ve terminal upwards. Ensure Battery –ve terminal is facing the battery cap. Tighten battery cap fully.
- **Switch On/Off**. With a battery fitted ensure the battery cap is fully tightened depress and hold the power on/off switch on URIC for 4 seconds . The URIC is 'powered on' and a beep will be heard in the earpiece or speaker. One single AA battery provides a minimum of 40hrs continuous operation. Depressing and holding down the on/off switch powers down the URIC into sleep mode, where a power down tone can be heard.
- **Storage**. ALWAYS remove battery when not in use and during storage.
- **Low Battery Warning**. Double beeps every 2minutes denote low battery power. It is recommended batteries are changed as quickly as possible.

Fig 4

For optimum use Savox recommends Duracell Copper top batteries

2.2 RADIO CONNECTION

- **Radio Connection**. URIC can allow simultaneous connection of up to 3 radios (when using the Dual radio Adapter) . One radio port is assigned as port A and the other is port B. Individual radio parameters (levels) are identified within the radio cable to the specific second radio. When Using the dual radio adapter always connect into Port A, which allows PTT transmissions using PTT's A & C
- **Cable Connection**. To fit a radio lead to URIC align red dots on the radio connector and URIC and push the connector into the radio socket on the URIC. To remove the radio cable from the URIC, pull connector **body backwards (latched style)** and pull away from the URIC.
- **Audio Levels**. Audio levels from the radio should be set to approximately mid point. Final levels can then be adjusted on the URIC radio Volume Control.
- **Dust Caps**. Always ensure the protective dust caps are fitted when connector ports are not in use.

2.3 EarPAC Or HEADSET CONNECTION

- Connection-Align Red Dots and push
- Removal-EarPac/headset connector has a quick pull release connector (Snatch)

Fig 5 - Connector Orientation

3. URIC Controls

3.1 EarPAC Talk Through (Peripheral Awareness)

Fig 6 - Volume Pad

- **General.** When an EarPAC (in Ear headset) is connected to an URIC for the first time Talk Through comes on automatically.
- **Talkthrough** . Press the + AND – simultaneously on the volume control pad until a tone is heard. Peripheral awareness mode is activated– Whilst in this mode the peripheral awareness for the In Ear headset can be adjusted up or down using the + or - switches. Double beeps will be heard when at the max and minimum volume settings have been set
- **Talkthrough On/Off**. Whilst in Peripheral Awareness mode (see above) press and hold + or - on the volume control pad for 3 seconds. This mutes all peripheral awareness of the In Ear headset – To active Peripheral awareness "on" ensure the Peripheral awareness mode is activated and then push either the + or— control switches on the volume pad. Peripheral Awareness mode is now active.
- ***Note: In Talk Through mode, incoming radio receive messages can still be heard***

Fig 7- Radio Volume Pad

3.2 Radio Volume Adjustment

- Press the + or - of the Volume pad to increase or decrease volume from both radio ports. A beep will be heard on each short push of the control pad.

3.3 PTT Switches

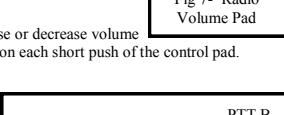

Fig 8 - PTT Switches

- There are three PTTs available, PTT B activates the Radios connected to Radio port B. PTT's A and C activate radios connected to Radio port A. Wireless PTT activation is determined by which WiC is affiliated to either PTT A or B.
- When using the Dual Radio adapter always connect to radio port A. PTT C will transmit on the second radio connected to the dual radio lead.

3.4 Voice Menu modes/controls

- The URIC 633-4VPX is capable of operating in a variety of modes and can be configured by depressing the "M"- Mode switch. Each depression initiates a voice prompt which advises the state/configuration of the unit and can be toggled between operating modes, these include:
  1) **MENU 1- VPU**– Voice Projection– (Used in conjunction with Respirators)
  2) **MENU 2-TONES**– Support radio tone transmission
  3) **MENU 3-INTERNAL SPEAKER**– disables/enables the on board speaker.

3.5 Menu 1-Mode -VPU

Activation of the VPU mode allows the URIC speaker to project speech when wearing a respirator with an **approved fitted microphone/headset.** This enables operators to communicate more clearly with surrounding people when respirators are worn.

Fig 9– Mode controls

- Depress Mode switch "M" once "**VPU OFF**" will be heard
- Depress + or— on the volume pad- "**VPU ON SWITCH C**" will be heard . Either wait 4 seconds and do not depress any controls or quickly depress the power/on/off—button- VPU mode is initiated.
- Connect the respirator microphone into headset socket.
- **Activate VPU**-Depress PTT C, this latches VPU mode where speech from the respirator microphone can be heard over the URIC internal speaker without holding the switch. Depression of any Radio PTT will momentarily activates radio transmissions and disables speech over the speaker. Upon release of the radio PTT speech will be heard over the speaker.
- To disable VPU mode depress PTT C or de-activate using the Mode control, depress "M" on the side of URIC and depress either + OR— on the volume pad until "**VPU OFF** " is heard in the menu mode.

3.6 Menu 2-Mode- Tone Transmission

Tone transmission mode allows tones to be transmitted over radios connected to port A or B. If a dual radio cable is connected to radio port A, tones can be transmitted using PTT switch C but this assumes VPU mode is not activated as this mode takes priority.

- Depress Mode switch "M" twice—"TONES OFF" will be heard
- Depress + OR—on the volume pad—" TONES ON"
- **Activate Tones**.-One Quick depression of any PTT A, B or C activates tones, followed by rapid depression of the same PTT (A/B or C). Each depression sends out a tone on the corresponding radio. Confirmation tones will he heard in the headset or speaker. Tone mode is automatically disabled after 2 seconds of releasing the PTT. Where normal radio voice PTT transmissions are resumed.
- **Note: The WiC (wireless Controller) cannot be used to transmit tones**
- To disable Tones depress "M" on the side of URIC and depress either + OR— on the volume pad until "TONES OFF" is heard in the menu mode

3.7 Menu 2-Mode-Internal Speaker "on/off"

With this mode activated the internal speaker can be permanently disabled muting all incoming audio to the speaker. To hear any radio transmissions in this mode a headset must be worn– Note VPU mode cannot be activated.

- Depress Mode switch "M" three times "**INTERNAL SPEAKER ON**" will be heard
- Depress + or— on the volume pad- "**INTERNAL SPEAKER OFF"** will be heard . Either wait 4 seconds and do no depress any controls or quickly depress the power/on/off button– incoming radio transmissions will not be heard through the internal speaker in this mode.
- In internal Speaker OFF mode a headset must be connected to hear menu controls alternatively the unit must be powered down (Hold Power Down button) and power up where the factory default mode is resumed "INTERNAL SPEAKER ON".

4. Wireless Controller (WiC)

4.1 General. The CC630/633-4 VPX incorporates a Wireless Controller (WiC) to allow remote activation of the URIC PTT switches A and B.

More than one Wireless Controller can be affiliated to a single PTT switch.

4.2 Affiliating the URIC to the Remote Wireless Controller. Affiliating any Controller to any PTT on URIC is a two stage process:

Stage 1 - Activate Wic Pairing on the URIC

- Depress Mode switch "M" four times "**WiC Pairing Off**" will be heard
- Depress either + or—on the volume pad and toggle the controls until **"WiC pairing Switch A or B" is selected.** Either PTT A or B can be paired with a WiC. **NOTE PTT C cannot be paired for WIC operation.** In affiliation mode the URIC generates pulse tones for 10 seconds denoting "pairing " mode. After this period the URIC has timed out and is not possible to affiliate the WiC without re-activation of pairing mode.

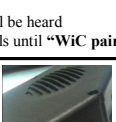

Fig 10. Press M x4 times for WiC pairing mode

Stage 2 - Affiliate the Remote Wireless Controller

- Whilst the URIC is in pairing mode Press down the button on the Remote Wireless Controller **TWO TIMES** to affiliate it to the selected PTT switch on the URIC. Confirmation tone will be heard to denote successful pairing

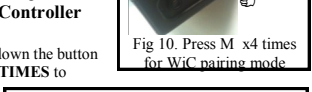

Fig 11 PTT A OR B FOR WIC operation

4.3 De-affiliating a Remote Wireless Controller

The following procedure must be carried out to de-affiliate a Remote Wireless Controller from an URIC.

- Slide out the battery clip on the Remote Wireless Controller
- Pull out the battery compartment, ensuring it is out of the housing
- Press the activation button for 10 seconds to drain any power within the unit
- The Remote Wireless Controller is now de-affiliated from any URIC

Fig 12 - Press the Button Twice to Affiliate

Fig 13 - Remove the Battery and Press to

4.4 URIC-URIC connection (Local Intercom)

URIC can provide wired communication between another URIC creating a 2 user –duplex intercom when **a headset** is connected

- Connect the URIC-URIC intercom cable into port B (recommended) and ensure headsets are connected into the URIC headset port
- Depress PTT B and talk to the other URIC. In this mode activation of the intercom PTT is "latched" providing hands free operation.
- To de-active intercom mode depress PTT B. If still connected to the other URIC, incoming speech will be heard in the headset.
- Radio PTT and Receive can still be operated if connected to a radio whilst on intercom mode.

5. Ancillary Connections/Operation

General. The CC630/633-4W is capable of operation with a variety of ancillaries. The following instructions provide information on the correct use and operation

5.1 Operation with URIC Mobile Telephones.

- Connect URIC mobile telephone into radio port A or B (recommend port B) and fit the jack plug onto the mobile telephone accessory port.
- Connect headset into URIC
- Ensure mobile is set for remote Mic/Speaker operations
- Dial telephone number on mobile phone and make call using mobile telephone
- When the call is connected depress Radio PTT on URIC to talk. (when connected to Port B use PTT B, When connected to port A use PTT A). When operating with a headset duplex mobile telephone communications can be maintained whilst the PTT is depressed.
- **When operating with mobile telephone and using the internal URIC micro-phone (ie no headset connected). The PTT must be released to hear incoming telephone messages.(Ie the Loudspeaker is disabled)**

5.2 Operation with URIC Respirator Adapter

The URIC Respirator adapter is to be used in conjunction with respirators **fitted with internal microphones.** This optimises radio speech transmissions using the internal mic within the respirator. When wearing headsets with boom microphones or an In Ear Mic (EarPAC) the adapter will bypass the microphone on the headset but still allow incoming radio receive messages to be heard.

- Connect Respirator Adapter into headset port on URIC
- Connect headset into the socket on the adapter
- Connect microphone wire to the respirator

5.3 Operation with Dual Radio Adapters

URIC can provide dual radio connectivity when connected to radio port A, and permit a further radio connection to port B allowing 3 radios OR x 2 Radios and Intercom , mobile telephone interface Or an external audio interface.

- Connect the URIC-URIC intercom cable into port B.
- Depress PTT B and talk to the other URIC. In this mode activation of the intercom PTT is in “latched” providing hands free operation.
- To de-active intercom mode depress PTT B. If still connected to the other URIC, incoming speech will be heard in the headset.
- Radio PTT and Receive can still be operated if connected to a radio whilst on intercom mode.

6. EarPAC 300/150

6.1 Ear Tip Fitting

- Ensure hands are clean and remove the correct size Ear Tips from packaging. Ear Tips are available in:
  Small
  Medium
  Large

ALWAYS USE THE CORRECT SIZE EARTIP TO ENSURE THE MAXIUMUM HEARING PROTECTION IS PROVIDED. DO NOT INTERCHANGE EARTIPS BETWEEN USERS AS IT MAY LEAD TO THE RISK OF INFECTION

- Push and rotate the tip onto the EarPAC nozzle, ensuring the base of the tip is flush with the EarPAC housing. Repeat for other ear.

Fig 14 - Ear Tip Fitting

6.2 Helix Tip Fitting (EarPAC 150 Only)

- Select the correct size of helix tip for your ear. Push helix tip onto the HELIX support arm on the EarPAC headset. Repeat for other ear.

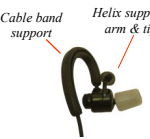

Fig 15 - Helix Tip Fitting

6.3 Insertion Into Ear

- To fit earpiece into ear, compress Ear tip (when foam tip fitted). Pull bottom of earlobe down and push/rotate the tip into the ear. Slightly tilt the tip towards the front of the head. Repeat for other ear.

- To provide optimum hearing protection ensure the Ear tip is pushed firmly into the ear. The Helix tip should be located securely within the ear helix. Push the securing band around the ear to provide support. When using foam tips wait 30 seconds to allow the tip to expand before use.

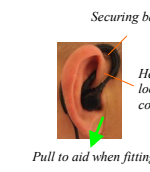

Fig 16 - Correct Fitting

6.4 Optimum Microphone Performance (EarPAC 150)

- To Ensure optimum radio microphone performance of the EarPAC 150 ensure the microphone boom is located close to the mouth

6.5 EarPAC Care and Maintenance

- When using either foam or silicon ear tips, regularly inspect the tips for signs of damage or excessive ear wax. Remove any excessive ear wax using clean water only and allow to dry. Do not clean a foam tip with any cleaning agents or solvents as these can affect the performance of the ear tip. When using regularly, replace tips (foam) every 2 weeks to ensure optimum performance. **Do not interchange Eartips between users.**

  Note:- Silicon tips can be cleaned using medical wipes.

Fig 17 - Correct Boom Mic Location

7. Compatible Audio Ancillaries

The URIC CC 630/633 series has been designed to allow operation with a wide range of audio ancillaries. This allows the user to select ancillaries based on operational and environmental requirements. Examples of some of the available audio ancillaries are shown bellow. Other items are available on request.

TM100 Throat Microphone

Dual transducer Microphone with back band to provide greater comfort than traditional throat Microphones. Fitted with an earphone, acoustic tube and user replaceable cloth comfort band.

HP-200 Assault Headset

Circumaural (Ear muff) Communication style headset with natural peripheral awareness (Talk Through), impulse noise (Gun fire) protection and Electret /Dynamic microphone

Covert Inductor Receivers/Neck Loop

Covert Inductive In Ear receivers (Digital or Analogue) and neckloop microphones. Available in pink or mid brown

LEP 340 D earphone Hanger

Earphone receive only D Hanger

HC-700/D Tactical Headset

Single sided HC 700 Tactical headset with boom microphone, allowing natural peripheral awareness to be maintained. Available as a dual headset (HC700D)

Dual PRC148(MBITR radio lead)

Allows connection of 2 radios when connected to radio port A allowing up to 3 radios to be connected to one URIC.

URIC-URIC-Intercom Lead-5m

URIC-URIC connection allowing intercom between x2 URIC users

Threat 4 In Ear Headset

In Ear hearing protection with Radio Boom Microphone, radio receive with impulse noise protection and Electronic Peripheral awareness

Alternative Radio/Intercom Leads

URIC is capable of operating and interfacing with a variety of radios including Tetra, P25, military HF ,tactical radios/ Mobile phones and intercoms. Contact Savox for the full list of support interfaces leads

Waste (Disposal) Of your Electronic and Electric Equipment

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COMMUNICATIONS

The European Union's WEEE directive requires that products sold into the EU countries must have the crossed out trashbin label on the product (or the package in some cases). As defined by the WEEE directive, this cross-out trashbin label means that customers and end users in EU countries should not dispose of electronic and electrical equipment or accessories in household waster. Customer or end users in EU countries should contact their local equipment supplier representative or service centre for information about waster collection system in their country

Warranty

1.) Savox grants a 12 month guarantee for its accessories begins from the date sold to the original purchaser. This warranty warrants the product will be free from defects in material or workmanship, including repairs or replacement, which ever is of a lower cost of equipment or parts.

2.) Defective products or parts should be sent to the manufacturer or to an authorised service repair centre intact, i.e for any products that have been opened in a service attempt by an unauthorised service repair shop or by the owner/user the warranty is void. Costs for transportation are not included within the warranty

3.) Damages which are caused by improper use or mishandling , incorrect storage or poor transportation are excluded from the warranty

4.) SAVOX is not liable for any damages caused by failure or the Savox product during operation

Conditions

1.) Notification of claims: Warranty service: If the purchaser discovers that the product has a proven defect in material or workmanship, then written notice with an explanation of the claim shall be given promptly by the purchaser to Savox but all claims for warranty service must be made within the warranty period. If after investigation by Savox determines that the reported problem was not covered by the warranty, the purchaser shall pay Savox for the cost of investigating the problem and it prevailing time- materials rate. No repair or replacement by the purchaser of any product or part thereof shall extend the warranty period as to the entire product. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following the repair or replacement of the part or the remaining period of the product warranty, whichever is greater.

2.) Exclusive remedy: Acceptance: Purchasers exclusive remedy and Savox's sole obligation is to supply (or pay for) all labour necessary to repair any product found to be defective within the applicable warranty period and to supply, at no extra charge new or rebuilt replacements for defect parts. If a repair or replacement fails to remedy the defect, then and only in such event Savox shall refund the purchaser the price for product . Purchaser's failure to make a claim as provided in para 1 above or continued use of the product shall constitute an unqualified acceptance of the product and a waiver by the purchasers of all claims thereto

3.) Exceptions to limited warranty: Savox shall have no liability or obligation to the purchaser with respect to any product subjected to abuse, improper use, negligence, accident, modification, failure of the end user to follow the operating and maintenance instructions outlined in this user guide, attempted to repair by nonqualified personnel, operation of the unit outside of the published environmental and electrical parameters, or if such products original identification (trademark, serial) markings have been defaced, altered or removed, Savox excludes from the warranty coverage. Products sold "as is" and or with all faults and excludes used products which have not been sold by Savox to the purchaser.

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